

What Is Claimed Is

1. A method for preparing a pouch containing an electrochemical cell, said method comprising:
 - a. providing a battery cell having at least one electrode tab protruding therefrom;
 - b. forming a pouch to enclose said battery and said at least one electrode, said pouch comprising a multi-layered film having a thickness of about 3 to 14 mils of at least one layer of a polar polymer selected from the group consisting of polyethylene vinyl alcohol copolymer, polyamide, polyaramide and polyurethane sandwiched between two polyolefin films and adhering thereto by a tie layer;
 - c. providing an electrolyte, and;
 - d. sealing said pouch
2. The method of claim 1 wherein said pouch comprises polyethylene vinyl alcohol copolymer sandwiched between at least one layer of low density polyethylene.
3. The method of claim 1 which includes partially encapsulating said electrode tab by a copolymer layer consisting of copolymer of ethylene and a member selected from the group consisting of acrylic acid, methacrylic acid, methacrylate ester and acrylate ester.
4. The method of claim 1 including providing a sealing strip of a copolymer layer of a polyolefin and an acrylic or methacrylic acid or ester.
5. A battery package, said package comprising:
 - a. a battery having at least one electrode tab protruding therefrom; and
 - b. a pouch which encloses said battery and which partially encloses said electrode tab, said pouch comprising a multi-layered film having a thickness of about 3 to 14 mils

of at least one layer of a polar film selected from the group consisting of polyethylene vinyl alcohol copolymer, polyamide, polyaramide and polyurethane sandwiched between two polyolefin films and adhering thereto by a tie layer.

6. The battery package of claim 5 including an outer layer of aluminum
7. The battery package of claim 5 wherein said pouch comprises a film layer of polyethylene vinyl alcohol copolymer sandwiched between at least one layer of low density polyethylene.
8. The battery package of claim 5 wherein said battery is rechargeable.
9. A non-aqueous electrochemical cell comprising:
 - a negative electrode;
 - a positive electrode;
 - a porous separator positioned between said negative electrode and said positive electrode;
 - an electrolyte solution comprising a liquid electrolyte and a conductive salt; and
 - a flexible, fluid impermeable container containing said negative electrode, said positive electrode, said separator, and said electrolyte solution, wherein said container comprises a layer of a polar film selected from the group consisting of polyethylene vinyl alcohol copolymer, polyamide, polyaramide and polyurethane sandwiched between two polyolefin films and adhering thereto by a tie layer.
10. The electrochemical cell of claim 9 including an aluminum outer layer attached to said container.

11. The electrochemical cell of claim 10 wherein said container comprises a film layer of polyethylene vinyl alcohol copolymer sandwiched between at least one layer of low density polyethylene.

12. In a container for holding an electrolyte, the improvement which comprises including a liner formed by a multi-layered film having a thickness of about 3 to 14 mils of at least one layer of a polar polymer selected from the group consisting of polyethylene vinyl alcohol copolymer, polyamide, polyaramide, and polyurethane sandwiched between two polyolefin films and adhering thereto by a tie layer.